Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

29512 Composite - 1000V UL Flexible Motor Supply Cable



For more Information please call

1-800-Belden1



General Description:

1 pr.(Signal)-16 AWG stranded (26x30) TC cond., XLPE insul., Beldfoil® shield (100% c), drain; 3 cond.(VFD) plus 1 ground wire-12 AWG stranded (65x30) TC cond., XLPE insul., Duofoil® and TC braid Shield (100% a85% c), drain, PVC jacket.

Suitable Applications:	AC Motor Drive, VFD, Variable Frequency Drive
wisted Pair	
Physical Characteristics	
Conductor	
AWG:	ing Conductor Material
1 16 26x30	TC - Tinned Copper
Insulation	
Insulation Material:	
Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked P	olyethylene 0.030
Twisted Pair Color Code	Chart:
Number Color	
1 Black and Wr	lite
Inner Shield	
Inner Shield Material:	
	me Type Inner Shield Material Coverage (%)
Beldfoil®	Tape Aluminum Foil-Polyester Tape 100
Inner Shield Drain Wire A	
AWG Stranding Cond	
18 19x30 TC -	Tinned Copper
Individual Shield	
Electrical Characteristics	
Nom. Capacitance Conduct	or to Conductor:
Capacitance (pF/ft)	
34.000	
Nom. Conductor DC Resist	
DCR @ 20°C (Ohm/1000	ft)
4.000	
Nom. Inner Shield DC Resis	stance:
DCR @ 20°C (Ohm/1000	ft)
4.990	
Iulti Conductor	
Physical Characteristics Conductor	
Physical Characteristics Conductor AWG:	Stranding Conductor Material
Physical Characteristics Conductor AWG: # Conductors AWG S	Stranding Conductor Material 35x30 TC - Tinned Copper
Physical Characteristics Conductor AWG: # Conductors AWG S	
Physical Characteristics Conductor AWG: # Conductors AWG \$ 3 12 6	
Physical Characteristics Conductor AWG: # Conductors AWG \$ 3 12 6 Ground Wire	35x30 TC - Tinned Copper
Physical Characteristics Conductor AWG: # Conductors AWG \$ 3 12 6 Ground Wire Ground Wire (Y/N): Ground Wire Material:	35x30 TC - Tinned Copper
AWG: # Conductors AWG S 3 12 6 Ground Wire Ground Wire (Y/N): Ground Wire Material: AWG Stranding Cond	35x30 TC - Tinned Copper Yes
Physical Characteristics Conductor AWG: # Conductors AWG \$ 3 12 6 Ground Wire Ground Wire (Y/N): Ground Wire Material: AWG Stranding Cond	35x30 TC - Tinned Copper Yes ductor Material Insulation Material

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XLPE - Cross Linked Polyethylene	Wall Thickness (in.)							
ALFE - GIUSS LITIKED POIYEUTYIERE								
Insulation Color Code Chart:								
Number Color								
1 Black #1 2 Black #2								
3 Black #3								
4 Green/Yellow								
Individual Shield								
Outer Shield Outer Shield Material:								
Layer # Outer Shield Trade Name	Type Outer Shield Material Coverage (%)							
1 Duofoil®	Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100.000							
2	Braid TC - Tinned Copper 85.000							
Outer Shield Drain Wire AWG:								
AWG Stranding Drain Wire Conductor Material 12 65x30 TC - Tinned Copper								
Electrical Characteristics								
Nom. Inductance:								
Inductance (µH/ft)								
0.197								
Nom. Capacitance Conductor to Shield:								
Capacitance (pF/ft) 47.000								
Nom. Capacitance Conductor to Conduc	ctor:							
Capacitance (pF/ft)								
26.000								
Nom. Conductor DC Resistance:								
DCR @ 20°C (Ohm/1000 ft)								
DCR @ 20°C (Ohm/1000 ft) 1.600								
1.600 Physical Characteristics (Overall	1)							
1.600 Physical Characteristics (Overall Conductor	I)							
1.600 Physical Characteristics (Overall	I)							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Material Nom. Wall Th	l) hickness (in.)							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Material: PVC - Polyvinyl Chloride 0.080	hickness (in.)							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: PVC - Polyvinyl Chloride Outer Jacket Ripcord:								
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Material: PVC - Polyvinyl Chloride Outer Jacket Ripcord: Outer Jacket Ripcord:	hickness (in.) Yes							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: PVC - Polyvinyl Chloride Outer Jacket Ripcord:	hickness (in.)							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Ripcord: Outer Jacket Ripcord: Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall Comparison of	hickness (in.) Yes 0.895 in.							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: PVC - Polyvinyl Chloride 0.080 Outer Jacket Ripcord: Overall Cable Overall Nominal Diameter:	hickness (in.) Yes 0.895 in.							
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1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Ripcord: Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Over Operating Temperature Range: Max. Recommended Pulling Tension:	hickness (in.) Yes 0.895 in. rall) -40°C To +90°C 527 lbs. 9 in.							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Ripcord: Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall Contemporation) Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis:	hickness (in.) Yes 0.895 in. rrall) -40°C To +90°C 527 lbs. 9 in. gency Compliance (Overall)							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Ripcord: Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Over Operating Temperature Range: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis:	hickness (in.) Yes 0.895 in. rrall) -40°C To +90°C 527 lbs. 9 in. gency Compliance (Overall)							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Ripcord: Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Ove Operating Temperature Range: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Ag Applicable Standards & Environmen	hickness (in.) Yes 0.895 in. rall) -40°C To +90°C : 527 lbs. 9 in. gency Compliance (Overall)							
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1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Ripcord: Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Over Operating Temperature Range: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Ag Applicable Standards & Environmen NEC/(UL) Specification: CEC/C(UL) Specification: CSA Specification:	hickness (in.) Yes 0.895 in. rrall) rrall -40°C To +90°C 527 lbs. 527 lbs. 9 in. gency Compliance (Overall) ntal Programs RHW-2 Singles, TC-ER 600V Type CIC TC 1000 V AWM I/II A/B							
1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Ripcord: Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Ove Operating Temperature Range: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Ag Applicable Standards & Environmen NEC/(UL) Specification: CEC/C(UL) Specification: EU Directive 2011/65/EU (ROHS II): EU CE Mark:	hickness (in.) Yes 0.895 in. rall) -40°C To +90°C : 527 lbs. 9 in. gency Compliance (Overall) tal Programs RHW-2 Singles, TC-ER 600V Type CIC TC 1000 V AWM I/II A/B Yes							
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1.600 Physical Characteristics (Overall Conductor Outer Jacket Outer Jacket Material: Outer Jacket Ripcord: Overall Cable Overall Characteristics (Ove Operating Temperature Range: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Ag Applicable Standards & Environmen NEC/(UL) Specification: CEC/C(UL) Specification: EU Directive 2011/65/EU (ROHS II): EU Directive 2000/53/EC (ELV): EU Directive 2000/53/EC (RoHS): EU RoHS Compliance Date (mm/dd/y)	hickness (in.) Yes 0.895 in. rall) -40°C To +90°C 527 lbs. 9 in. gency Compliance (OV=rall) ttal Programs RHW-2 Singles, TC-ER 600V Type CIC TC 1000 V AWM I/II A/B Yes Yes <td< th=""></td<>							
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MII Order #39 (China RoHS):	Yes				
PMSHA Specification:	P-07-KA070003 1000V UL Flexible Motor Supply Cable				
Other Specification:					
lame Test					
UL Flame Test:	UL1685 UL Loading				
CSA Flame Test:	FT4				
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)				
uitability					
Suitability - Indoor:	Yes				
Suitability - Outdoor:	Yes				
Suitability - Burial:	Yes				
Sunlight Resistance:	Yes				
lenum/Non-Plenum					
Plenum (Y/N):	No				

Electrical Characteristics (Overall)

IVIa	lax. Operating voltage - UL:					
	Voltage					
	1000 V RMS (Flexible Motor Supply Cable)					
Ma	Max. Operating Voltage - Other:					
	Voltage					
	1000 V RMS (CSA AWM I/II A/B)					

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29512 010100	100 FT	77.300 LB	BLACK	С	COMPOSITE CABLE SH PVC
29512 0101000	1,000 FT	438.000 LB	BLACK	С	COMPOSITE CABLE SH PVC
29512 0104000	4,000 FT	1,680.000 LB	BLACK	С	COMPOSITE CABLE SH PVC
29512 010500	500 FT	226.500 LB	BLACK	С	COMPOSITE CABLE SH PVC

Notes:

1

C = CRATE REEL PUT-UP.

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